

CLAIMS:

1. A support apparatus for a construction mast comprising:
a truss;
a top adjustable mount assembly secured to the truss wherein the
adjustable mount assembly is selectively positionable so as
to engage the construction mast.

2. The support apparatus of claim 1 comprising:
a bottom adjustable mount assembly mounted to a bottom frame
portion of the truss, including at least one bottom wedge
bracket assembly wherein the bottom wedge
bracket is selectively positionable with respect to the bottom
frame portion so as to engage the construction mast.

3. The support apparatus of claim 1, wherein the top adjustable mount
assembly comprises:
at least one wedge bracket assembly; and
at least one pin cradle assembly.

4. The apparatus of claim 1, wherein the top adjustable mount
assembly comprises:
four top wedge bracket assemblies; and
two top pin cradle assemblies.

5. The apparatus of claim 2, wherein the bottom adjustable mount
assembly comprises:
four bottom wedge bracket assemblies.

6. The apparatus of claim 3, wherein the pin cradle assembly comprises:

a truss mounting plate fixably mounted to a top frame portion of the truss;

a cradle mounting flange selectively positionable with respect to the truss mounting plate; and

a pin support plate fixed to the cradle mounting flange and shaped so as to receive a cross pin.

7. The apparatus of claim 6, wherein mounting bolts are alternately disposable through at least two sets of mounting holes in the cradle mounting flange so as to allow the selective positioning of the cradle mounting flange with respect to the truss mounting plate.

8. The apparatus of claim 6, wherein mounting bolts are disposed through slots in the cradle mounting flange so as to allow the selective positioning of the cradle mounting flange with respect to the truss mounting plate.

9. The apparatus of claim 3, wherein the wedge bracket assembly comprises:

a bracket mounting plate fixably mounted to a top frame portion of the truss;

a bracket mounting flange selectively positionable with respect to the bracket mounting plate;

a wedge plate fixed to the bracket mounting flange; and

a wedge positionable between the wedge plate and the construction mast.

10. The apparatus of claim 9 and comprising:
at least one spacer disposed against the wedge plate.

11. The apparatus of claim 9 wherein mounting bolts are alternately
disposable through at least two sets of mounting holes in the bracket mounting
flange so as to allow the selective positioning of the bracket mounting flange with
respect to the bracket mounting plate.

12. The apparatus of claim 9 wherein mounting bolts are disposed
through slots in the bracket mounting flange so as to allow the selective positioning
of the bracket mounting flange with respect to the bracket mounting plate.

13. The apparatus of claim 2 wherein the bottom wedge bracket
assembly comprises:
a bracket mounting plate fixably mounted to a bottom frame
portion;
a bracket mounting flange selectively positionable with respect to
the bracket mounting plate;
a wedge plate fixed to the bracket mounting flange; and
a wedge positionable between the wedge plate and the construction
mast.

14. The apparatus of claim 13 and comprising:
at least one spacer disposed against the wedge plate.

15. A method for supporting multiple construction masts comprising:
disposing a first mast having a first outer diameter into a truss
having a top adjustable mount assembly and a bottom
adjustable mount assembly;
positioning the top adjustable mount assembly into a first top
position so as to supportably engage the first mast; and
positioning the bottom adjustable mount assembly into a first
bottom position so as to supportably engage the first mast.

16. The method of claim 15 comprising:
removing the first mast from the truss;
disposing a second mast having a second outer diameter into the
truss;
positioning the top adjustable mount assembly into a second top
position so as to supportably engage the second mast; and
positioning the bottom adjustable mount assembly into a second
bottom position so as to supportably engage the second
mast.

17. The method of claim 15 wherein the step of positioning the top
adjustable assembly into a first position comprises:
positioning a pin cradle assembly having a pin support plate such
that the pin support plate is proximate the first mast;
disposing a cross pin through the first mast; and
supporting the cross pin on the pin support plate.

18. The method of claim 16 wherein the step of positioning the top
adjustable mount assembly into a second position comprises:

positioning a pin cradle assembly such that the pin support plate is proximate the second mast;

disposing a cross pin through the second mast; and

supporting the cross pin with the pin support plate.

19. The method of claim 15 wherein the step of positioning the top adjustable mount assembly into the first position comprises:

positioning a top wedge bracket assembly having a top wedge plate such that the wedge plate is proximate the first mast; and

driving a wedge between the top wedge plate and the first mast.

20. The method of claim 16 wherein the step of positioning the top adjustable mount assembly into the second position comprises:

positioning a top wedge bracket assembly such that the wedge plate is proximate to the second mast; and

driving a wedge between the wedge plate and the second mast.

21. The method of claim 15 wherein the step of positioning the bottom adjustable mount assembly into the first position comprises:

positioning a bottom wedge bracket assembly having a bottom wedge plate such that the bottom wedge plate is proximate the first mast; and

driving a wedge between the wedge plate and the first mast.

22. The method of claim 16 wherein the step of positioning the bottom adjustable mount assembly into the second position comprises:

positioning a bottom wedge bracket assembly such that the bottom wedge plate is proximate the second mast; and

driving a wedge between the wedge plate and the second mast.

23. A support frame for receiving a mast comprising:
 - a truss having top frame tubes and bottom frame tubes;
 - a plurality of top wedge bracket assemblies secured to the top frame tubes equidistantly from each other, each top wedge bracket assembly having a top bracket mounting plate fixably mounted to the top frame tubes, a top bracket mounting flange selectively positionable with respect to the top bracket mounting plate, a top wedge plate fixed to the bottom bracket mounting flange, and a top wedge positionable between the top wedge plate and the construction mast;
 - a plurality of pin cradle assemblies secured to the top frame tubes, each pin cradle assembly having a truss mounting plate fixably mounted to the top frame tubes, a cradle mounting flange selectively positionable with respect to the truss mounting plate, and a pin support plate fixed to the cradle mounting flange and shaped so as to receive a cross pin; and
 - a plurality of bottom wedge bracket assemblies secured to the bottom frame tubes equidistantly from each other, each bottom wedge bracket assembly having a bottom bracket mounting plate fixably mounted to the bottom frame tubes, a bottom bracket mounting flange selectively positionable with respect to the bottom bracket mounting plate, a bottom wedge plate fixed to the bottom bracket mounting flange, and a bottom wedge positionable between the bottom wedge plate and the mast.

24. The frame of claim 23 comprising:
a spacer bearing plate fixably mounted to the top frame portion; and
at least one spacer disposed between the top spacer bearing plate
and the top wedge plate.

25. The frame of claim 23 wherein the truss is shaped so as to receive
the mast, wherein the mast has an outer diameter of from approximately 24 inches
to approximately 32 inches.

26. A support frame for receiving a plurality of masts having different
cross-sectional diameters comprising:
a truss having a top frame portion and a bottom frame portion;
means for supportably receiving any one of the plurality of masts at
the top frame portion; and
means for supportably receiving any one of the plurality of masts at
the bottom frame portion.

27. The support frame of claim 26 comprising:
a top wall anchorage fixably secured to the top frame portion and
adapted so as to be mountable to a vertical surface.

28. The support frame of claim 26 comprising:
a bottom wall anchorage fixably secured to the bottom frame
portion and adapted so as to be mountable to a vertical
surface.